

SEQUENCE LISTING

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<120> Arrays and Methods

<130> P33676WO

<140> PCT/GB2003/001049
<141> 2003-03-13

<150> GB 0205910.3
<151> 2002-03-13

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<170> PatentIn version 3.2

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<212> PRT
<213> Homo sapiens

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Gly Thr Gly Met Lys Tyr Arg Asn Leu Gly Lys Ser Gly Leu Arg Val
1 5 10 15

Ser Cys Leu Gly Leu Gly Thr Trp Val Thr Phe Gly Gly Gln Ile Ser
20 25 30

Asp Glu Val Ala Glu Arg Leu Met Thr Ile Ala Tyr Glu Ser Gly Val
35 40 45

Asn Leu Phe Asp Thr Ala Glu Val Tyr Ala Ala Gly Lys Ala Glu Val
50 55 60

Ile Leu Gly Ser Ile Ile Lys Lys Gly Trp Arg Arg Ser Ser Leu
65 70 75 80

Val Ile Thr Thr Lys Leu Tyr Trp Gly Gly Lys Ala Glu Thr Glu Arg
85 90 95

Gly Leu Ser Arg Lys His Ile Ile Glu Gly Leu Lys Gly Ser Leu Gln
100 105 110

Arg Leu Gln Leu Glu Tyr Val Asp Val Val Phe Ala Asn Arg Pro Asp
115 120 125

Ser Asn Thr Pro Met Glu Glu Ile Val Arg Ala Met Thr His Val Ile
130 135 140

Asn Gln Gly Met Ala Met Tyr Trp Gly Thr Ser Arg Trp Ser Ala Met
145 150 155 160

Glu Ile Met Glu Ala Tyr Ser Val Ala Arg Gln Phe Asn Met Ile Pro
165 170 175

Pro Val Cys Glu Gln Ala Glu Tyr His Leu Phe Gln Arg Glu Lys Val
180 185 190

Glu Val Gln Leu Pro Glu Leu Tyr His Lys Ile Gly Val Gly Ala Met
195 200 205

Thr Trp Ser Pro Leu Ala Cys Gly Ile Ile Ser Gly Lys Tyr Gly Asn
210 215 220

Gly Val Pro Glu Ser Ser Arg Ala Ser Leu Lys Cys Tyr Gln Trp Leu
225 230 235 240

Lys Glu Arg Ile Val Ser Glu Glu Gly Arg Lys Gln Gln Asn Lys Leu
245 250 255

Lys Asp Leu Ser Pro Ile Ala Glu Arg Leu Gly Cys Thr Leu Pro Gln
260 265 270

Leu Ala Val Ala Trp Cys Leu Arg Asn Glu Gly Val Ser Ser Val Leu
275 280 285

Leu Gly Ser Ser Thr Pro Glu Gln Leu Ile Glu Asn Leu Gly Ala Ile
290 295 300

Gln Val Leu Pro Lys Met Thr Ser His Val Val Asn Glu Ile Asp Asn
305 310 315 320

Ile Leu Arg Asn Lys Pro Tyr Ser Lys Lys Asp Tyr Arg Ser
325 330

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<213> Homo sapiens

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Gly Leu Gln Phe Tyr Arg Asn Leu Gly Lys Ser Gly Leu Arg Val Ser
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Glu Met Ala Glu Gln Leu Met Thr Leu Ala Tyr Asp Asn Gly Ile Asn
35 40 45

Leu Phe Asp Thr Ala Glu Val Tyr Ala Ala Gly Lys Ala Glu Val Val
50 55 60

Leu Gly Asn Ile Ile Lys Lys Lys Gly Trp Arg Arg Ser Ser Leu Val
65 70 75 80

Ile Thr Thr Lys Ile Phe Trp Gly Lys Ala Glu Thr Glu Arg Gly
85 90 95

Leu Ser Arg Lys His Ile Ile Glu Gly Leu Lys Ala Ser Leu Glu Arg
100 105 110

Leu Gln Leu Glu Tyr Val Asp Val Val Phe Ala Asn Arg Pro Asp Pro
115 120 125

Asn Thr Pro Met Glu Glu Thr Val Arg Ala Met Thr His Val Ile Asn
130 135 140

Gln Gly Met Ala Met Tyr Trp Gly Thr Ser Arg Trp Ser Ser Met Glu
145 150 155 160

Ile Met Glu Ala Tyr Ser Val Ala Arg Gln Phe Asn Leu Thr Pro Pro
165 170 175

Ile Cys Glu Gln Ala Glu Tyr His Met Phe Gln Arg Glu Lys Val Glu
180 185 190

Val Gln Leu Pro Glu Leu Phe His Lys Ile Gly Val Gly Ala Met Thr
195 200 205

Trp Ser Pro Leu Ala Cys Gly Ile Val Ser Gly Lys Tyr Asp Ser Gly
210 215 220

Ile Pro Pro Tyr Ser Arg Ala Ser Leu Lys Gly Tyr Gln Trp Leu Lys
225 230 235 240

Asp Lys Ile Leu Ser Glu Glu Gly Arg Arg Gln Gln Ala Lys Leu Lys
245 250 255

Glu Leu Gln Ala Ile Ala Glu Arg Leu Gly Cys Thr Leu Pro Gln Leu
260 265 270

Ala Ile Ala Trp Cys Leu Arg Asn Glu Gly Val Ser Ser Val Leu Leu
275 280 285

Gly Ala Ser Asn Ala Asp Gln Leu Met Glu Asn Ile Gly Ala Ile Gln
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Val Leu Pro Lys Leu Ser Ser Ser Ile Ile His Glu Ile Asp Ser Ile
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Leu Gly Asn Lys Pro Tyr Ser Lys Lys Asp Tyr Arg Ser
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<213> Homo sapiens

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Asp Glu Thr Ala Glu Asp Val Leu Thr Val Ala Tyr Glu His Gly Val
35 40 45

Asn Leu Phe Asp Thr Ala Glu Val Tyr Ala Ala Gly Lys Ala Glu Arg
50 55 60

Thr Leu Gly Asn Ile Leu Lys Ser Lys Gly Trp Arg Arg Ser Ser Tyr
65 70 75 80

Val Ile Thr Thr Lys Ile Phe Trp Gly Gly Gln Ala Glu Thr Glu Arg
85 90 95

Gly Leu Ser Arg Lys His Ile Ile Glu Gly Leu Arg Gly Ser Leu Glu
100 105 110

Arg Leu Gln Leu Gly Tyr Val Asp Ile Val Phe Ala Asn Arg Ser Asp
115 120 125

Pro Asn Cys Pro Met Glu Glu Ile Val Arg Ala Met Thr Tyr Val Ile
130 135 140

Asn Gln Gly Leu Ala Leu Tyr Trp Gly Thr Ser Arg Trp Gly Ala Ala
145 150 155 160

Glu Ile Met Glu Ala Tyr Ser Met Ala Arg Gln Phe Asn Leu Ile Pro
165 170 175

Pro Val Cys Glu Gln Ala Glu His His Leu Phe Gln Arg Glu Lys Val
180 185 190

Glu Met Gln Leu Pro Glu Leu Tyr His Lys Ile Gly Val Gly Ser Val
195 200 205

Thr Trp Tyr Pro Leu Ala Cys Gly Leu Ile Thr Ser Lys Tyr Asp Gly
210 215 220

Arg Val Pro Asp Thr Cys Arg Ala Ser Ile Lys Gly Tyr Gln Trp Leu
225 230 235 240

Lys Asp Lys Val Gln Ser Glu Asp Gly Lys Lys Gln Gln Ala Lys Val
245 250 255

Met Asp Leu Leu Pro Val Ala His Gln Leu Gly Cys Thr Val Ala Gln
260 265 270

Leu Ala Ile Ala Trp Cys Leu Arg Ser Glu Gly Val Ser Ser Val Leu
275 280 285

Leu Gly Val Ser Ser Ala Glu Gln Leu Ile Glu His Leu Gly Ala Leu

290

295

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Gln Val Leu Ser Gln Leu Thr Pro Gln Thr Val Met Glu Ile Asp Gly
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Leu Leu Gly Asn Lys Pro His Ser Lys Lys
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<213> Rattus sp.

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Gly Thr Gly Met Lys Tyr Arg Asn Leu Gly Lys Ser Gly Leu Arg Val
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Ser Cys Leu Gly Leu Gly Thr Trp Val Thr Phe Gly Gly Gln Ile Ser
20 25 30

Asp Glu Val Ala Glu Arg Leu Met Thr Ile Ala Tyr Glu Ser Gly Val
35 40 45

Asn Leu Phe Asp Thr Ala Glu Val Tyr Ala Ala Gly Lys Ala Glu Val
50 55 60

Ile Leu Gly Ser Ile Ile Lys Lys Gly Trp Arg Arg Ser Ser Leu
65 70 75 80

Val Ile Thr Thr Lys Leu Tyr Trp Gly Gly Lys Ala Glu Thr Glu Arg
85 90 95

Gly Leu Ser Arg Lys His Ile Ile Glu Gly Leu Lys Gly Ser Leu Gln
100 105 110

Arg Leu Gln Leu Glu Tyr Val Asp Val Val Phe Ala Asn Arg Pro Asp
115 120 125

Ser Asn Thr Pro Met Glu Glu Ile Val Arg Ala Met Thr His Val Ile
130 135 140

Asn Gln Gly Met Ala Met Tyr Trp Gly Thr Ser Arg Trp Ser Ala Met
145 150 155 160

Glu Ile Met Glu Ala Tyr Ser Val Ala Arg Gln Phe Asn Met Ile Pro
165 170 175

Pro Val Cys Glu Gln Ala Glu Tyr His Leu Phe Gln Arg Glu Lys Val
180 185 190

Glu Val Gln Leu Pro Glu Leu Tyr His Lys Ile Gly Val Gly Ala Met
195 200 205

Thr Trp Ser Pro Leu Ala Cys Gly Ile Ile Ser Gly Lys Tyr Gly Asn
210 215 220

Gly Val Pro Glu Ser Ser Arg Ala Ser Leu Lys Cys Tyr Gln Trp Leu
225 230 235 240

Lys Glu Arg Ile Val Ser Glu Glu Gly Arg Lys Gln Gln Asn Lys Leu
245 250 255

Lys Asp Leu Ser Pro Ile Ala Glu Arg Leu Gly Cys Thr Leu Pro Gln
260 265 270

Leu Ala Val Ala Trp Cys Leu Arg Asn Glu Gly Val Ser Ser Val Leu
275 280 285

Leu Gly Ser Ser Thr Pro Glu Gln Leu Ile Glu Asn Leu Gly Ala Ile
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Gln Val Leu Pro Lys Met Thr Ser His Val Val Asn Glu Ile Asp Asn
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Ile Leu Arg Asn Lys Pro Tyr Ser Lys Lys Asp Tyr Arg Ser
325 330

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Gly Leu Gln Phe Tyr Arg Asn Leu Gly Lys Ser Gly Leu Arg Val Ser
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Cys Leu Gly Leu Gly Thr Trp Val Thr Phe Gly Gly Gln Ile Thr Asp

20

25

30

Glu Met Ala Glu His Leu Met Thr Leu Ala Tyr Asp Asn Gly Ile Asn
35 40 45

Leu Phe Asp Thr Ala Glu Val Tyr Ala Ala Gly Lys Ala Glu Val Val
50 55 60

Leu Gly Asn Ile Ile Lys Lys Lys Gly Trp Arg Arg Ser Ser Leu Val
65 70 75 80

Ile Thr Thr Lys Ile Phe Trp Gly Gly Lys Ala Glu Thr Glu Arg Gly
85 90 95

Leu Ser Arg Lys His Ile Ile Glu Gly Leu Lys Ala Ser Leu Glu Arg
100 105 110

Leu Gln Leu Glu Tyr Val Asp Val Val Phe Ala Asn Arg Pro Asp Pro
115 120 125

Asn Thr Pro Met Glu Glu Thr Val Arg Ala Met Thr His Val Ile Asn
130 135 140

Gln Gly Met Ala Met Tyr Trp Gly Thr Ser Arg Trp Ser Ser Met Glu
145 150 155 160

Ile Met Glu Ala Tyr Ser Val Ala Arg Gln Phe Asn Leu Ile Pro Pro
165 170 175

Ile Cys Glu Gln Ala Glu Tyr His Met Phe Gln Arg Glu Lys Val Glu
180 185 190

Val Gln Leu Pro Glu Leu Phe His Lys Ile Gly Val Gly Ala Met Thr
195 200 205

Trp Ser Pro Leu Ala Cys Gly Ile Val Ser Gly Lys Tyr Asp Ser Gly
210 215 220

Ile Pro Pro Tyr Ser Arg Ala Ser Leu Lys Gly Tyr Gln Trp Leu Lys
225 230 235 240

Asp Lys Ile Leu Ser Glu Glu Gly Arg Arg Gln Gln Ala Lys Leu Lys
245 250 255

Glu Leu Gln Ala Ile Ala Glu Arg Leu Gly Cys Thr Leu Pro Gln Leu
260 265 270

Ala Ile Ala Trp Cys Leu Arg Asn Glu Gly Val Ser Ser Val Leu Leu
275 280 285

Gly Ala Ser Asn Ala Glu Gln Leu Met Glu Asn Ile Gly Ala Ile Gln
290 295 300

Val Leu Pro Lys Leu Ser Ser Ser Ile Val His Glu Ile Asp Ser Ile
305 310 315 320

Leu Gly Asn Lys Pro Tyr Ser Lys Lys Asp Tyr Arg Ser
325 330

<210> 6
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Gly Thr Gly Met Lys Tyr Arg Asn Leu Gly Lys Ser Gly Leu Arg Val
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Ser Cys Leu Gly Leu Gly Thr Trp Val Thr Phe Gly Ser Gln Ile Ser
20 25 30

Asp Glu Thr Ala Glu Asp Leu Leu Thr Val Ala Tyr Glu His Gly Val
35 40 45

Asn Leu Phe Asp Thr Ala Glu Val Tyr Ala Ala Gly Lys Ala Glu Arg
50 55 60

Thr Leu Gly Asn Ile Leu Lys Ser Lys Gly Trp Arg Arg Ser Ser Tyr
65 70 75 80

Val Ile Thr Thr Lys Ile Phe Trp Gly Gly Gln Ala Glu Thr Glu Arg
85 90 95

Gly Leu Ser Arg Lys His Ile Ile Glu Gly Leu Gln Gly Ser Leu Asp
100 105 110

Arg Leu Gln Leu Glu Tyr Val Asp Ile Val Phe Ala Asn Arg Ser Asp
115 120 125

Pro Ser Ser Pro Met Glu Glu Ile Val Arg Ala Met Thr Tyr Val Ile
130 135 140

Asn Gln Gly Leu Ala Leu Tyr Trp Gly Thr Ser Arg Trp Ser Ala Ala
145 150 155 160

Glu Ile Met Glu Ala Tyr Ser Met Ala Arg Gln Phe Asn Leu Ile Pro
165 170 175

Pro Val Cys Glu Gln Ala Glu Asn His Phe Phe Gln Arg Glu Lys Val
180 185 190

Glu Met Gln Leu Pro Glu Leu Tyr His Lys Ile Gly Val Gly Ser Val
195 200 205

Thr Trp Ser Pro Leu Ala Cys Ser Leu Ile Thr Ser Lys Tyr Asp Gly
210 215 220

Gln Val Pro Asp Ala Cys Lys Ala Thr Val Lys Gly Tyr Gln Trp Leu
225 230 235 240

Lys Glu Lys Val Gln Ser Glu Asp Gly Lys Lys Gln Gln Ala Arg Val
245 250 255

Thr Asp Leu Leu Pro Ile Ala His Gln Leu Gly Cys Thr Val Ala Gln
260 265 270

Leu Ala Ile Ala Trp Cys Leu Arg Ser Glu Gly Val Ser Ser Val Leu
275 280 285

Leu Gly Val Ser Ser Ala Glu Gln Leu Met Glu His Leu Gly Ser Leu
290 295 300

Gln Val Leu Gly Gln Leu Thr Pro Gln Thr Val Met Glu Ile Asp Ala
305 310 315 320

Leu Leu Gly Asn Lys Ser His Ser Lys Lys
325 330